

031075-000007 TJC 303131

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Jingsong Xia et al.

Serial No. 09/884,256

Filed June 19, 2001

COMBINATION TRELLIS DECODER  
AND DECISION FEEDBACK  
EQUALIZER

Before the Examiner

Amanda T. Le

Group Art Unit 2634

September 15, 2004

RECEIVED

SEP 23 2004

Technology Center 2600

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTCommissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure in accordance with 37 C.F.R. §1.56, Applicant wishes to bring to the attention of the Examiner the items of information listed on the enclosed Information Disclosure Citation Form. This information has not been previously submitted in this application, and has not been heretofore cited previously by the Examiner. Copies of all U.S. patents, foreign patent documents and non-patent literature are enclosed.

The undersigned hereby certifies that some of the items of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

September 15, 2004

Date of Deposit

Troy J. Cole

Name of Registered Representative

Signature

September 15, 2004

Date of Signature

09/22/2004 HHEKONEN 00000068 09884256

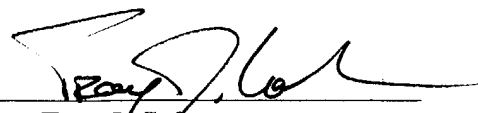
01 FC:1805

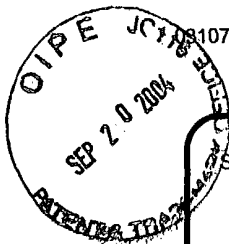
180.00 DP

This Statement is not being submitted within three months of the issuance of the communication of the foreign counterpart application, however, this Statement is being submitted more than three months after the filing date of the application and after the mailing of the first Office Action on the merits, but before the mailing of a final action under § 1.113 or a Notice of Allowance under § 1.311. The Commissioner is authorized to charge the fee under 37 CFR 1.17(p) in the amount of \$180 to the credit card detailed on the attached form PTO-2038. No further fee is believed to be required for consideration of the submitted items. However, should any fees be deemed required, the Commissioner is authorized to charge such fees to Deposit Account No. 23-3030, but is not to include payment of issue fees.

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined in §1.56(b).

Respectfully submitted

By:   
Troy J. Cole  
Reg. No. 35,102  
Woodard, Emhardt, Moriarty,  
McNett & Henry LLP  
Bank One Center/Tower  
111 Monument Circle, Suite 3700  
Indianapolis, Indiana 46204-5137  
(317) 634-3456



31075-000007.TJC.302474

WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB-control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number 09/884,256

Filing Date June 19, 2001

First Named Inventor Jingsong Xia

Group Art Unit 2634

Examiner Name Amanda T. Le

Attorney Docket Number 31075-7

RECEIVED

SEP 23 2004

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US - 4,567,599	01/28/1986	Mizoguchi	
		US - 4,712,221	12/08/1987	Pearce et al.	
		US - 4,815,103	03/21/1989	Cupo et al.	
		US - 4,833,693	05/23/1989	Eyuboglu	
		US - 4,856,031	08/08/1989	Goldstein	
		US - 4,866,395	09/12/1989	Hostetter	
		US - 4,989,090	01/29/1991	Campbell et al.	
		US - 5,052,000	09/24/1991	Wang et al.	
		US - 5,134,480	07/28/1992	Wang et al.	
		US - 5,210,774	05/11/1993	Abbate et al.	
		US - 5,311,546	05/10/1994	Paik et al.	
		US - 5,453,797	09/26/1995	Nicolas et al.	
		US - 5,471,508	11/28/1995	Koslov	
		US - 5,506,636	04/09/1996	Patel et al.	
		US - 5,508,752	04/16/1996	Kim et al.	
		US - 5,532,750	07/2/1996	De Haan et al.	
		US - 5,537,435	07/16/1996	Carney et al.	
		US - 5,568,098	10/22/1996	Horie et al.	
		US - 5,568,521	10/22/1996	Williams et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 0,524,559 B1	05/02/1997	Paik et al.		
		EP 0,752,185 B1	07/17/2002	Strolle et al.		
		WO 00/27033	05/11/2000	Tan et al.		
		WO 00/27066	05/11/2000	Jaffe et al.		
		WO 01/01650 A1	01/04/2001	Bourdeau		
		WO 01/13516 A2	02/22/2001	Jaffe et al.		

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



31075-000007.TJC.302474

WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

4

Complete if Known

Application Number	09/884,256
Filing Date	June 19, 2001
First Named Inventor	Jingsong Xia
Group Art Unit	2634
Examiner Name	Amanda T. Le
Attorney Docket Number	31075-7

RECEIVED

SEP 23 2004

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US - 5,619,154	04/08/1997	Strolle et al.	
		US - 5,648,987	04/15/1997	Yang et al.	
		US - 5,692,014	11/25/1997	Basham et al.	
		US - 5,789,988	08/04/1998	Sasaki	
		US - 5,802,461	09/01/1998	Gatherer	
		US - 5,805,242	09/08/1998	Strolle et al.	
		US - 5,828,705	10/27/1998	Kroeger et al.	
		US - 5,835,532	11/10/1998	Strolle et al.	
		US - 5,870,433	02/09/1999	Huber et al.	
		US - 5,894,334	04/13/1999	Strolle et al.	
		US - 5,995,154	11/30/1999	Heimbürger	
		US - 6,005,640	12/21/1999	Strolle et al.	
		US - 6,034,734	03/7/2000	De Haan et al.	
		US - 6,034,998	03/07/2000	Takashi et al.	
		US - 6,044,083	03/28/2000	Citta et al.	
		US - 6,069,524	05/30/2000	Mycynek et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 01/43310 A2	06/14/2001	Jaffe et al.		
		WO 01/43384 A2	06/14/2001	Jaffe et al.		

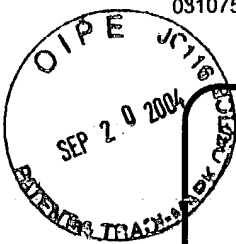
Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 4

Complete if Known

Application Number	09/884,256
Filing Date	June 19, 2001
First Named Inventor	Jingsong Xia et al.
Group Art Unit	2634
Examiner Name	Amanda T. Le
Attorney Docket Number	31075-7

RECEIVED

SEP 23 2004

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US - 6,133,785	10/17/2000	Bourdeau	
		US - 6,133,964	10/17/2000	Han	
		US - 6,145,114	11/07/2000	Crozier et al.	
		US - 6,154,487	11/28/2000	Murai et al.	
		US - 6,195,400 B1	02/27/2001	Maeda	
		US - 6,198,777 B1	03/06/2001	Feher	
		US - 6,219,379 B1	04/17/2001	Ghosh	
		US - 6,222,891 B1	04/24/2001	Liu et al.	
		US - 6,226,323 B1	05/01/2001	Tan et al.	
		US - 6,249,544	06/19/2001	Azazzi et al.	
		US - 6,260,053 B1	07/10/2001	Maulik et al.	
		US - 6,272,173 B1	08/07/2001	Hatamian	
		US - 6,275,554 B1	08/14/2001	Bouillet et al.	
		US - 6,278,736 B1	08/21/2001	De Haan et al.	
		US - 6,307,901 B1	10/23/2001	Yu et al.	
		US - 6,333,767 B1	12/25/2001	Patel et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



1075-000007.TJC.302474

WEMMH/SB/08A (4/03)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<i>Complete if Known</i>	
		Application Number	09/884,256
		Filing Date	June 19, 2001
		First Named Inventor	Jingsong Xia
		Group Art Unit	2634
Examiner Name	Amanda T. Le		
Attorney Docket Number	31075-7		
Sheet	4	of	4

RECEIVED  
SEP 23 2004  
Technology Center 2600

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US - 6,363,124 B1	03/26/2002	Cochran	
		US - 6,411,341 B1	06/25/2002	De Haan et al.	
		US - 6,411,659 B1	06/25/2002	Liu et al.	
		US - 6,415,002 B1	07/02/2002	Edwards et al.	
		US - 6,421,378 B1	07/16/2002	Fukuoka et al.	
		US - 6,438,164 B2	08/20/2002	Tan et al.	
		US - 6,452,639 B1	09/17/2002	Wagner et al.	
		US - 6,466,630 B1	10/15/2002	Jensen	
		US - 6,490,007 B1	12/03/2002	Bouillet et al.	
		US - 6,493,409 B1	12/10/2002	Lin et al.	
		US - 6,507,626 B1	01/14/2003	Limberg	
		US - 6,535,553 B1	03/18/2003	Limberg et al.	
		US - 6,611,555 B2	08/26/2003	Smith et al.	
		US - 6,734,920 B2	05/11/2004	Ghosh et al.	
		US -2001/0048723 A1	12/06/2001	Oh	
		US -2002/0024996 A1	02/28/2002	Agazzi et al.	
		US -2002/0136329 A1	09/26/2002	Liu et al.	
		US -2002/0154248 A1	10/24/2002	Wittig et al.	
		US -2002/0172276 A1	11/21/2002	Tan et al.	
		US -2003/0058967 A1	03/27/2003	Lin et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.